Engineering Interpretations

Engineering Index Properties

This table gives estimates of the engineering classification and of the range of index properties for the major layers of each soil in the survey areas. Most soils have layers of contrasting properties within the upper 5 to 6 feet. Information in this table includes depth, USDA texture, Unified and AASHTO Classification, rock fragments larger than 3 inches, percentage passing designated sieves, liquid limit, and plasticity index.

Properties

DEPTH to the upper and lower boundaries of each layer is indicated.

TEXTURE is given in the standard terms used by the USDA. The terms are defined according to percentages of sand, silt, and clay in the fraction of the soil that is less than 2 millimeters in diameter. (Textural terms are defined in Chapter 4, Soil Survey Manual or in the glossary of most soil survey reports) If the content of particles coarser than sand is 15 percent or more, an appropriate modifier is added, for example, "gravelly."

UNIFIED CLASSIFICATION SYSTEM classifies soils according to properties that affect their use as construction material. Soils are classified according to grain-size distribution of the fraction less than 3 inches in diameter and according to plasticity index, liquid limit, and organic matter content.

AASHTO CLASSIFICATION is the system adopted by the American Association of State Highway and Transportation Officials. It classifies soils according to those properties that affect roadway construction.

ROCK FRAGMENTS, 3 to 10 inches and greater than 10 inches in diameter, are indicated as a percentage of the total soil on a dry-weight basis. The percentages are estimates determined mainly by converting volume percentage in the field to weight percentage.

PERCENTAGE (of soil particles) passing designated sieves is the percentage of the soil fraction less than 3 inches in diameter based on an oven dry weight. The sieves, numbers 4, 10, 40, and 200, have openings of 4.76, 2.00, 0.420, and 0.074 millimeters, respectively. Estimates are based on laboratory tests of soils sampled in the survey area and in nearby areas and on estimates made in the field.

LIQUID LIMIT AND PLASTICITY INDEX (Atterbery limits) indicate the plasticity characteristics of a soil. The estimates are based on test data from the survey area, or from nearby areas, and on field examination.

This subsection includes:

• (a) Engineering Index Properties

 Map symbol	 Depth	USDA texture	Classif	icati	on	Fragn	ments		ccentage sieve n		_	 Liquid	 Plas-
and soil name		 	Unified	 A.	ASHTO	>10 inches	3-10 inches	 4	10	40	200	limit	ticity index
	 In	 		 		Pct	 Pct	 				Pct	
73055:							! 	 	 				i i
Alred	0-1 1-7	 SPM GRV-SIL	GC-GM, GC	 A-1,	A-2	 0-7	 0-25	 35-50	 25-50	 25-50	20-35	 15-25	 NP-10
	7-11 11-30 	GR-SIL, GRV-SIL GRV-L, GRX-L, GRV-SIL, GRX- SIL	GC-GM, GC GC-GM, GC 	A-2, A-2 	A-4	0-7 0-10 	0-25 0-40 	50-75 25-50 	35-70 15-50 	35-65 15-50 		15-25 20-35 	NP-10 5-15
	30-80	C, GR-C, CB-C	CH	A-7		0-2	0-15	80-100	70-100	65-95	60-95	50-80	25-45
Rueter 	0-1 1-4 4-17 17-32 32-43 	 SPM GRV-SIL, GR-SIL GRV-SIL, CBV-SIL, GRV-SIL GRV-CL, GRV- SICL, CBV-SIC, GRV-SIC, GRV-C C, GR-C, CB-C,	GC-GM, GC GC-GM, GC	 A-1, A-2, A-2 A-2 	A-4	 0-7 0-7 0-10 0-10 0-10	0-25	 35-50 	 25-50 		10-35	 15-25 15-25 20-35 35-50 	
 73139: Poynor	0-1 1-4 4-13	GRV-C, CBV-C SPM	 GC-GM, GM GC-GM, GM	A-1, A-2, A-2,	A-2 A-4		 0-15 0-25	 60-80 50-75	 50-75 35-70	 25-50 35-65	 20-35	 15-25 15-25	
	24-80	C, CB-C	I СН	 A-7		0-2	0-15	80-100	 70-100	 65-95	60-95	50-80	25-45

Map symbol	Depth	USDA texture	Classif	ication		Fragi	ments		_	e Passi umber	_	 Liquid	 Plas-
and soil name	D OF OIL					>10	3-10		22010 11				ticity
			Unified	AASHTO		inches	inches	4	10	40	200		index
73139: (cont)	In					Pct	Pct					Pct	
Clarksville	0-1	 SPM	 	l 		 			l 				
	1-5	GR-SIL	GC, SC-SM, SC	ι Δ – 1		0-2	0-15	60-80	50-75	25-50	20-40	15-25	 NP-10
i	5-8	GR-SIL, GRV-SIL	1 '	A-2, A-4		0-7	0-25	50-75	35-70	30-65	25-50	15-25	NP-10
		GR-L, GR-SIL, GRV-L, GRV-SIL	GC-GM, GC	A-2, A-4,	A-6		0-25	50-75	35-70	30-65	25-50	20-35	5-15
	18-42	GRV-L, GRV-SIL, GRV-CL, GRV- SICL, GRX-CL	i .	 A-2, A-6 		0-10	0-40	 25-50 	15-50 	10-45	10-40	30-45	 15-25
	42-65	C, GR-C, GRV-C	CL, CH, GC	A-2, A-7		0-7	0-25	35-95	25-90	25-85	25-80	40-60	20-30
Scholten	0-1	SPM								i			
i i	1-3	GR-SIL	GC-GM, GM	A-1, A-2		0-2	0-15	60-80	50-75	45-50	20-40	15-25	NP-10
j	3-8	GRV-SIL, GR-SIL	GC-GM, GM	A-2, A-4		0-7	0-25	50-75	35-70	35-65	30-50	15-25	NP-10
İ	8-17	GRV-SICL, GRV-	GC-GM, GC	A-2, A-4,	A-6	0-7	0-25	35-50	25-50	25-50	20-45	20-40	5-20
	17-41	GRV-SIL, GRV- SICL, CBV-SIL, CBV-SICL, GRX- SIL	GC 	 A-2 		0-7 	0-25 	25-50 	15-50 	15-50 	10-35	25-35	10-15
	41-80	GR-SICL, GRV- SICL, GR-C, GRV-C, GR-SIC	CL, CH, GC	A-2, A-7 		0-7 	0-25 	45-80 	35-75	35-75	30-70	40-70	20-40
73140:						! 							
Clarksville	0-1	SPM											
	1-6	GR-SIL		A-1, A-2		0-2	0-15	60-80	1	25-50	20-35	15-25	NP-10
		GR-SIL, GRV-SIL		A-2, A-4		0-7	0-25	50-75	35-70	30-65	25-50	15-25	NP-10
	13-21	GR-L, GR-SIL,	GC-GM, GC	A-2, A-4,	A-6	0-7	0-25	50-75	35-70	30-65	25-50	20-35	5-15
	21-43	GRV-L, GRV-SIL	 GC	 A-2, A-6		0-10	0-40	 25-50	15-50	10-45	10-40	35-45	 15-25
		GRV-CL, GRV-	 				 	 		 			
İ	43-66	C, GR-C, GRV-C	GC, CL, CH	A-2, A-7		0-7	0-25	35-95	25-90	25-85	25-80	40-60	20-30
İ													

 Map symbol	Depth	USDA texture	Classif	ication	Fragi	ments		centage sieve n	e Passii	ng	 	 Plas-
and soil name	Depth	USDA CEXCUIE			 >10	3-10	 	steve III	alliber – –			Flas- ticity
			Unified	AASHTO	1	inches	4	10	40	200		index
	In				Pct	Pct					Pct	
73140: (cont)				ļ								
Scholten	0-1	SPM										
	1-6	GRV-SIL	GC-GM, GM	A-1, A-2	0-7	0-25	35-50	25-50	25-50	20-35	15-25	NP-10
	6-13	GR-SIL, GRV-SIL		A-2, A-4	0-7	0-25	1		35-65	30-50	15-25	NP-10
	13-34 	GRV-CL, GRX-L, GRX-CL, GRV- SIL	GC-GM, GC 	A-2, A-4, A-6 	0-7 	0-25 	25-50 	15-50 	15-50 	10-45 	20-35	5-15
	34-58	GRV-CL, GRV- SIL, GRV-L, GRX-CL, GRX-L, GRX-SIL	 GC 	A-2 	0-7 	0-25 	25-50 	15-50	15-50 	10-35 	25-35 	10-15
	58-80	GR-SICL, GR-CL, GR-C, GRV-CL, GRV-C	GC, CL, CH	A-2, A-7 	0-10	0-40	 45-80 	35-75	35-75 	30-70 	35-70	20-40
73141:			 		 	 	 		 	 		
Firebaugh	0-1	SPM	ĺ									
	1-4	SI	ML, CL-ML	A-4	0	0	1	l .	80-100	Į.	15-25	NP-7
	4-8	SIL, SI	ML, CL-ML	A-4	0	0	1	ı	80-100	1	15-25	NP-7
	8-21	SIL, SICL	CL	A-6	0	0			70-95	1	30-40	10-20
	21-36 	GRV-SIL, GR-L, GRV-L, GRV- SICL	SC, GC, CL 	A-6, A-2 	0-7 	0-25 	35-80 	25-75 	25-65 	25-60 	30-40	10-20
	36-71	GR-CL, GR-C, CBV-C, CBX-C	 GC, SC, CL, CH 	A-2, A-7 	0-10 	0-40 	25-80 	 15-75 	15-70 	15-65 	40-60	20-30

Map symbol	Depth	USDA texture	 	Classif	icati	on	Fragr	ments		centage sieve nu	Passir umber		 Liquid	 Plas-
and soil name	_	İ	İ				>10	3-10	Ì				limit	ticity
			U1	nified	A	ASHTO	inches	inches	4	10	40	200	 	index
	In						Pct	Pct					Pct	
73142:]				Į							
Firebaugh	0-1	SPM	ļ				ļ							
	1-4	SIL		CL-ML	A-4		0	0			70-100		15-25	NP-7
		SIL, SI	ML,	CL-ML	A-4		0	0	1		70-100			NP-7
	11-28	SIL, SICL	CL		A-6		0	0		75-100			30-40	10-20
	28-39	GR-L, GRV-L, GR-SIL, GRV- SICL	GC, : 	SC, CL	A-6, 	A-2	0-7 	0-25 	35-80 	25-70	25-65 	25-60	30-40 	10-20
	39-71	GR-CL, GR-C,	SC, GC	CL, CH,	A-2,	A-7	0-10	0-40	25-80 	15-75	15-70	15-65	40-60 	20-30
 73143:								 	 		 		 	
Courtois	0-7	SIL	CL, 0	CL-ML	A-6,	A-4	0	0	80-100	75-100	65-95	55-80	20-35	5-15
	7-15	SIL, SICL, SIC	CL		A-6,	A-7	0	0	85-100	85-100	70-95	60-90	30-45	10-25
	15-32	SICL, C, SIC, GR-CL, GRV-CL	SC, (CL	A-7,	A-2	0	0-25	50-100	35-100	35-95	30-95	40-50 	20-30
j 1	32-80	GR-C, C	CH		A-7 		0	0-10	 80-100 	60-100	60-95 I	55-95	60-80	30-45 30-45
73144:			İ		İ								İ	
Courtois	0-7	SIL	CL,	CL-ML	A-6,	A-4	j o	0	80-100	75-100	65-95	55-80	20-35	5-15
į į	7-15	SICL, SIC, SIL	CL		A-6,	A-7	j o	0	85-100	85-100	70-95	60-90	30-45	10-25
	15-32	SICL, C, SIC, GR-CL, GRV-CL	SC, O	CL	A-7,	A-2	j 0 j	0-25	50-100 	35-100	35-95 	30-95	40-50 	20-30
	32-80	GR-C, C	CH		A-7		0	0-10	80-100	60-100	60-95	60-95	60-80	30-45
73145:														
Crider	0-8	SIL	CL,	CL-ML	A-4,	A-6	0	0			90-100			5-15
	8-32	SIL, SICL	CL		A-6		0	0	100		90-100			10-15
	32-74	SICL, C, SIC	CL, C	CH	A-6,	A-7	0	0 	90-100 	85-100 	70-100 	60-100 	35-55 	15-25
							İ	İ	İ				İ	

Map symbol	Depth	USDA texture	Classif	icati	on	Fragr			centage sieve nu	Passir	_	 Liquid	
and soil name			Unified	 A	ASHTO	>10 inches	3-10 inches	 4	10	40	200	limit 	ticity index
	In					Pct	Pct	 				Pct	
73146:	0 5												
Marquand	0-5	SIL	ML, CL-ML	A-4		0	0			90-100	1		NP-10
	5-8	SIL, SI	ML, CL-ML	A-4		0	0	1		90-100			NP-10
	8-22	SIL, SICL	CL	A-6 A-6		0 0	0			90-100	I	l .	10-20
	22-43 43-80	SIL, SICL	CL CL	A-6 A-6,	7. 7	0	0 0-2			80-100 70-100			10-20 15-25
	43-80	L, SIL, CL,	 	A-6,	A- /		0-2	 85-100	/5-100	70-100	55-95	30-45	15-25
 73147:							 			 			
Fourche	0-6	SIL	CL-ML, CL	A-4		j o	0	100	95-100	90-100	85-100	20-30	5-10
į į	6-30	SIL, SICL	CL	A-6		j o	0	100	95-100	90-100	85-100	30-40	10-20
İ	30-54	SIL, SICL, SIC	CL	A-6,	A-7	0	0-2	85-100	85-100	75-100	60-95	30-45	10-25
	54-66	SIC, C	CH	A-7		0	0-2	85-100	75-100	70-100	60-95	50-70	25-40
73148:						ļ			 		 	 	
Jonca		SIL	1 '	A-4		0	0	1	1	85-95	ı		NP-5
		SIL	ML, CL-ML	A-4		0	0	1	ı	85-100	1		NP-5
ļ	12-32	SIL, L, SICL	CL	A-6		0	0			85-100		30-40	10-15
	32-52 	SL, FSL, L 	SC-SM, CL-ML, CL, SC	A-4, 	A-6	0 	0 	95-100 	95-100 	85-95 	45-85 	20-35 	5-15
	52-62	CL, L	SC-SM, CL-ML,	A-4,	A-6	0	0-7	90-100 	75-95	60-85 	40-80	20-35	5-15
		BR		<u> </u>			 	 	 	 	 		
 73149:] 	1	 			<u> </u> 	 		<u> </u> 	<u> </u>		
Caneyville		SIL	CL, CL-ML	A-4,	A-6	0	0-2	90-100	85-100	75-100	60-95	20-35	5-15
	4-11	SIC, C, SICL	CL, CH	A-7		0	0-2	95-100	85-100	75-100	65-100	40-70	20-35
	11-29	SIC, C, SICL	CL, CH	A-7		0	0-2	95-100	85-100	75-100	65-100	40-70	20-35
		BR							 	 	 	 	
Bucklick		SIL	CL	A-6,	A-4	0	0-2	90-100		l .			5-15
		SICL, SIC, C	CH, CL	A-6		0	0	90-100	1				10-30
	30-46	SIC, C, GR-C BR	CL, CH, SC	A-7		0-7	0-7	50-100	50-100	50-100	45-100 	40-70 	20-40
		[1			ĺ							l į

Map symbol	Depth	USDA texture		Classif	icati	on	Fragr	ments		centage sieve nu	e Passir umber		 Liquid	 Plas-
and soil name		 		Unified	7	ASHTO	>10 inches	3-10	 4	10	l 40	200	limit	ticity index
		 		unillea	A	ASHIU	_ menes	Inches 	4 	10 	40 		 	Index
	In	į	į		į		Pct	Pct	į				Pct	į į
73150:	0-8	 SIL	CL,	CL-ML	 A-4,	A-6	0	 0-2	 90-100	 85-100	 75-100	60-95	 20-35	 5-15
		SIC, C, SICL	CL		A-7		0	1	95-100					15-30
	18-30 	SIC, C, SICL BR	CL,	СН	A-7		0 	0-2 	95-100	'.	75-100 	65-95 	40-70 	20-35
		BK]			 	 	 	 	 	 	
Bucklick	0-3	SIL	CL		A-4,	A-6	0	0-2	90-100	85-100	75-100	60-95	20-35	5-15
			CL,		A-6		0	0	1		75-100			10-30
	1	SIC, C, GR-C	SC,	CL, CH	A-7		0-7	\ .	50-100		!	!	:	20-40
		BR 	 					 	 	 	 	 	 	
73151:							İ		İ				! 	i i
Caneyville		SPM	ļ					ļ	ļ					
	1-4	SIL		CL-ML	A-4,	A-6	0	0-2	90-100	l	ı		1	5-15
	4-11 11-31	SIC, C, SICL SIC, C, SICL	CL,		A-7 A-7		0 0	0-2 0-2	95-100		75-100		1	20-35 20-35
		BR		CII	'									
Connected to	0-3	l a T a		OI I		7. C	0-5	0.10	 90-95	 85-90	 80-85	 75-80	 35-60	 10-30
Gasconade	0-3 3-16	SIC CBV-CL, GRV-C,	CL,	СН	A-7,			1	90-95 35-60				35-60 40-70	10-30 20-35
	3 10 	GRV-SIC, CBV-				A Z	0 25	13 30 	33 00 	23 30 	<u>2</u> 5 50 	23 43	1 0 70 	20 33
		BR 	 		 			 	 	 	 	 	 	
 Bucklick	0-1	 SPM	j I		 		j 	 	 	 	 		 	i i i
	1-6	SIL	CL		A-4,	A-6	0	0-2	90-100	85-100	75-100	60-95	20-35	5-15
ļ	6-31	SICL, SIC, C	CH,		A-6		0	0	1		75-100			10-30
	31-47	SIC, C, GR-C	SC,	CL, CH	A-7		0-7	0-7	<u> </u>	50-100	50-100	45-100	40-70	20-40
		BR]			 	 	 	 	 	 	

			Classif	ication	Frag	ments		centage		_		
Map symbol and soil name	Depth	USDA texture		I	 >10	3-10		sieve nu	umber			Plas- ticity
and soli name	 		 Unified	 AASHTO	1	3-10 inches	4	10	40	200	1111111	index
	 In			- 	 Pct	Pct	 	 	l ———— I		 Pct	
73152:		! 	İ	<u> </u> 	100			! 	! 		100	
Lily	0-1	SPM		! 				 				
j - '	1-3	SIL	ML, CL-ML	A-4	i o	0-5	90-100	80-100	80-95	65-85	10-20	NP-5
İ	3-9	FSL, SIL	SM, ML, CL-ML	A-4	0	0-5	1	70-100	I	35-80	10-20	NP-5
İ	9-25	CL, L, GR-L	SC, CL	 A-6	i o	0-10	75-100	70-100	55-95	35-80	25-35	10-15
		BR		<u> </u>		j	j	j	j	j		
 Ramsey	0-1	 SPM	 					 	 			
i - '	1-3	FSL	SM, SC-SM	A-4	į o	0-10	80-100	75-100	60-90	35-50	10-20	NP-5
İ	3-7	FSL, SL	SM, ML, CL-ML	 A-4	i o	0-10		70-100	•	35-80	10-20	NP-5
İ	7-17	GR-SL, FSL, SL		A-2, A-4	į o	0-10	70-95	60-90	45-80	20-45	15-35	NP-10
		BR			<u> </u>		j			j		ļ
 73153:	<u> </u>		 					 	 			
Lily	0-1	SPM				i			i			i
j - '	1-4	FSL	SM, SC-SM	A-4	į o	0-5	80-100	75-100	60-80	35-50	10-20	NP-5
İ	4-11	FSL, SIL	SM, ML, CL-ML	A-4	j o	0-5	75-100	70-100	55-95	35-80	10-20	NP-5
İ	11-28	CL, L, GR-L	SC, CL	A-6	i o	0-10		70-100		35-80	25-35	10-15
	ļ	BR]		j	j		
 Ramsey	0-1	 SPM						 	 			
i - '	1-3	FSL	SM, SC-SM	A-4	i o	0-10	80-100	75-100	60-90	35-50	10-20	NP-5
	3-7	FSL, SL	1 .	A-4	0	0-10	75-100	70-100	 55-95	35-80	10-20	NP-5
	ı 7-17	GR-SL, FSL, SL	1 1	 A-2, A-4	0	0-10	 70-95	ı 60-90	 45-80	20-45	1 15-35	 NP-10
		BR		2, 11 1								

 Map symbol	 Depth	USDA texture	Classif	ication	Fragi	ments		centage sieve nu		ng	 Liquid	 Plas-
and soil name	 		 Unified	AASHTO	>10 inches	3-10 inches	 4	10	40	200	limit	ticity index
	 In			-	Pct	 Pct 	 	l 		 	Pct	
Ramsey	 0-1	 SPM	 			 	 	 	 	 		
	1-3 3-7	FSL FSL, SL	SM, SC-SM SM, SC-SM,	A-4 A-4	0	0-10	80-100 75-100	75-100 70-100		35-50 35-80	10-20	NP-5 NP-5
	 7-17 	 GR-SL, FSL, SL BR	ML, CL-ML SM, SC-SM 	 A-2, A-4	0 	 0-10 	 70-95 	 60-90 	 45-80 	 20-45 	 15-35 	 NP-10
 Rock outcrop	 				 	 	 	 	 	 		
 73155:	 					 	 		 	 		
Gasconade	0-4 4-13	SIC CBV-CL, GRV-C, GRV-SIC, FLV-	 CL, CH GC 	A-7, A-6 A-6, A-7, A-2	0-5 0-25		1	ı	 80-85 25-50 	75-80 25-40 	35-60	 10-30 20-35
	 	SIC BR	 			 	 	 	 	 		
Rock outcrop	 	 BR	 					 	 			
 73156:	 		 			 	 		 	 		
Alred	1-6	SPM GRV-SIL GR-SIL, GRV-SIL GRV-L, GRX-L, GRV-SIL, GRX-	 GC-GM, GC GC-GM, GC GC, GC-GM	 A-1, A-2 A-4, A-2 A-2	 0-7 0-7 0-10				 25-50 35-65 15-50	 20-35 30-50 10-35	 15-25 15-25 20-35	 NP-10 NP-10 5-15
	 31-79 	SIL C, GR-C, CB-C 	 CH 	 A-7 	0-7	 0-15 	 80-100 	 70-100 	 65-95 	 60-95 	 50-80 	 25-45
Gepp	1-6	 SPM GRV-SIL GR-CL, GR-SICL, SIC, C C	 GC-GM, GC SC, CL, CH CH	 A-1, A-2 A-6, A-7 A-7	 0-7 0	0-7	1	50-100	 45-100 	 40-95 	 15-25 35-65 	 NP-10 15-30 30-45

Map symbol	Depth	USDA texture	Classif	ication	Fragi	ments		_	e Passiı umber	ng	 Liquid	 Plas-
and soil name	-	İ			>10	3-10	İ					ticity
		 	Unified	AASHTO	inches	inches	4	10	40	200	į į	index
	In				Pct	Pct					Pct	ļ—— ļ
73157:	0 5	 GTT	CT MT CT						100 100		115 05	
Captina	0-5	SIL	CL-ML, CL	A-4	0	0	95-100	1	1	1	1	1 1
	5-25	SIL, SICL	CL	A-6	0 0	0			85-100			10-20
	25-31	GR-SIL, GRV- SICL, SIL, GRV-SIL, GRX- SIL, SICL	GC, SC, CL 	A-2, A-6 	U 	0-25 	 	25-100 	20-100 		30-40	10-20
	31-78	GR-C, CB-CL, CBV-C, GRV-C, GR-SIC, GRV- SIC	GC, SC, CL, CH 	A-2, A-7 	0 	0-25 	45-80 	35-75 	35-75 	30-70 	40-70 	20-35
74644:		İ	İ				İ		İ	<u> </u>	İ	i i
Deible	0-7	SIL	CL, CL-ML	A-4	0	0	90-100	85-100	80-100	75-95	20-35	5-15
į i	7-16	SIL	CL	A-6, A-4	0	0	85-100	75-100	65-100	65-95	20-35	 5-15
į į	16-40	SICL, SIC	CL, CH	A-7, A-6	0	0	100	95-100	90-100	80-95	40-60	20-30
	40-65	SIL, CL, SICL	CL	A-7, A-6	0	0	85-100	75-100	70-100	60-95	30-45	15-25
 74645:			 		 		 	 	 	 		
Higdon	0-8	SIL	CL	 A-4	l 0	0	100	100	90-100	85-95	20-30	 5-10
5	8-13	SIL	CL	A-4	i o	0	100	100	1	85-95		5-10
i i	13-27	SICL	İCL	A-6	i o	i o	1 100	1 100	95-100	•		15-25
	27-67	SICL, SIL	CL	A-6	0	0	95-100	95-100	90-100	85-95	30-40	10-20
 74646:		 -	 		 	 	 	 	 	 	 	
Cornwall	0-5	 SIL	CL, CL-ML	 A-4	l l 0	1 0	 85-100	I 80-100	80-100	I 75-95	20-30	 5-10
	5-17	SIL, SICL	CL ML	A-6	l 0	1 0	1	I .	80-100	Į.	!	3 10 10-20
	17-39	SIL, SICL, GR-	CL, SC, GC	A-6, A-2	l 0-2	0-15	30-100	1			30-40	10-20 10-20
		SIL, GRV-SIL	' '				İ	İ	İ	j		
	39-60	GRV-SICL, GR- SICL, GRX-C, GRX-CL, SICL,	CL, GC, SC 	A-7, A-2, A-6 	0-2 	0-15 	30-80 	20-75 	20-75 	15-70 	35-50 	10-25
į		GRV-C	į			į	į	į	į	į	į	į į
		I										

			Classif	ication	Fragr	nents		_	e Passir	ng		
Map symbol	Depth	USDA texture	ļ 				٤	sieve n	ımber			Plas-
and soil name					>10	3-10					limit	ticity
			Unified	AASHTO	inches	inches	4	10	40	200		index
	In	 			Pct	Pct		 	 	ļ i	Pct	
74647:	0 6	 att	OT AT				105 100				100 20	
Cornwall	0-6	SIL	CL, CL-ML	A-4	0	0			80-100	1	1	5-10
	6-34	SICL	CL	A-6	0	0	1	1	80-100			10-20
	34-52	SIL, SICL, GR-	CL, SC, GC	A-6, A-2	0-2	0-15	30-100	25-100	20-100	20-100	30-40	10-20
	F0 60	SIL, GRV-SIL										
ļ	52-60	GR-SICL, GRX-C,	CL, GC, SC	A-7, A-2, A-6	0-2	0-15	30-80	20-75	20-75	15-70	35-50	10-25
		GRV-SICL, GRX-										
		CL, SICL, GRV-										
		C										
 74648:		 										
1 1	0 4		OT NT			0	105 100	 			100 20	
Aslinger		SIL	CL, CL-ML	A-4	0	0	1	1	80-95	1	20-30	5-10
	4-8	SIL	CL, CL-ML	A-4	0	0			80-95		20-30	5-10
		SIL, SICL	CL	A-6	0	0			70-100		25-40	10-20
	21-29	GR-L, GR-SIL, GRV-L, GRV-	SC, GC, CL	A-2, A-6 	0-2	0-15 	30-85 	25-75 	20-70 	15-65 	20-35	5-15
j i		SIL, GRX-L,	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ
i i		GRX-SIL		İ	İ	İ	İ	İ	İ	İ	İ	j i
	29-55		GC, SC, CL	A-2, A-6	0-2	0-15	35-80	25-75	25-70	20-65	25-40	10-25
j		GRV-L, GRV-CL			İ	İ	İ	İ	İ	İ		i i
j	55-70	!	GC, SC	A-2, A-6, A-7	0-10	0-40	35-65	25-60	25-55	20-50	35-60	15-35
j		GRV-CL, GRX-C,	<u> </u>			İ		İ	İ	İ		
i		CBX-C				<u>.</u>		<u> </u>	<u> </u>	<u> </u>		<u> </u>
i			İ									

		[<u> </u>	Classif	icatio	on		Fragr	ments			e Passir		Ţ.	<u> </u>
Map symbol	Depth	USDA texture			1				1 2 10		sieve nu	ımber			Plas-
and soil name		 	ן ט	nified	 A	ASHTO		>10 inches	3-10 inches	 4	10	40	200	limit 	ticity index
İi		j	İ		İ			İ	İ	İ	İ	İ	İ	.İ	İİ
	In		ļ		ļ			Pct	Pct					Pct	ļ ļ
74649:	0 0			~											
Aslinger	0-3	SIL		CL-ML	A-4			0	!	95-100	ı	1	!	20-30	5-10
	3-8	SIL	1	CL-ML	A-4			0	0		90-100		60-90	20-30	5-10
!	8-20	SIL, SICL	CL		A-6			0	0			70-100	!	25-40	10-20
	20-39	GR-L, GR-SIL, GRV-L, GRV- SIL, GRX-L,	GC , 	SC, CL	A-2, 	A-6		0-2	0-15 	30-85 	25-75 	20-70 	15-65 	20-35	5-15
		GRX-SIL	ļ			_									
	39-52	GR-L, GR-CL, GRV-CL	GC, 	SC, CL	A-6,	A-2		0-2	0-15 	35-80 	25-75 	25-70 	20-65 	25-40	10-25
	52-80	GR-SICL, GR-C, GRV-CL, GRX-C, CBX-C	GC, 	SC	A-2, 	A-6,	A-7	0-10	0-40 	35-65 	25-60	 25-55 	20-50 	35-60	15-35
 Waben	0-6	 GR-SIL	 GC_G	M, CL-ML	 A-4			 0-5	 0-10	 60-90	 50-75	 50-70	 50-65	 15-25	 NP-10
	6-15	GR-SIL, GRV-L, GRV-SIL		M, GC	A-1,	A-2,	A-4	ı	1	1	I	1	20-40	20-30	5-10
i i	15-54	GRV-L, GRV-SIL	GC,	GC-GM	A-2,	A-6		0-5	0-40	30-60	25-50	25-50	20-40	25-35	 5-15
	54-80	GRV-SCL, GRV-	GC,	GC-GM	A-2			0-5	0-40 	30-60 	25-50	25-50 	20-40	30-45	10-25
 74650:		 	I I		l I				 	 	 	 	 		
Higdon	0-5	 SIL	I I CT.	CL-ML	 A-4			l l 0	l I 0	 95_100	 95_100	 an_1nn	 75_95	20-30	 5-10
	5-16	SIL		CL-ML	A-4			l 0		95-100				20-30	5-10
i i	16-33	SIL, SICL	CL	02 112	A-6			l 0	1	95-100	1	1		•	10-20
 		L, SIL, CL,	CL		A-6			0	I	85-100	l	I	I		10-20
 74684:									 	 		 	 		
Racoon	0-4	SIL	CL		 A-4			0	0	90-100	90-100	85-95	80-95	20-35	5-15
j	4-26	SIL	CL		A-4			0	0	90-100	90-100	85-95	80-95	20-35	5-15
j	26-58	SIL, CL, SICL	CL		A-6			0	0	90-100	90-100	80-100	60-95	30-40	 10-20
	58-80	L, SIL	CL		A-6			0	0			80-100		25-35	10-15
			I		I				l	l		l	l	I	I

Map symbol	Depth	USDA texture	Classif	ication	Fragm	nents		centage		ng	 Liquid	 Plas-
and soil name	Depth	USDA CEXCUTE	l	<u> </u>		3-10	-	steve III	IIIDEI ––			Flas- ticity
			Unified	AASHTO	inches		4	10	40	200	 	index
	In				Pct	Pct					Pct	
75381:				İ							ĺ	
Bearthicket		SIL	CL-ML, CL	A-4	0	0		l .	I	75-100	!	5-10
	6-19	SIL	CL-ML, CL	A-4	0	0				75-100		5-10
		SICL, SIL	CL	A-6	0		95-100					10-15
		L, SIL COSL, FSL, L,		A-4, A-6 A-2, A-4	0 0		95-100 60-100					5-15 5-15
	04-00	SL, GR-SL, GR- FSL, GRV-SL		A-2, A-4 		0-10 		30-100	50-100	20-00 	 	3-15
		 	 	 							! 	
Jamesfin	0-6	SIL	CL, CL-ML	A-4	0	0	95-100	95-100	90-100	75-100	20-30	5-10
į į	6-15	SIL	CL, CL-ML	A-4	0	0	95-100	95-100	90-100	75-100	20-30	5-10
		SIL	CL	A-6	0		95-100					10-15
	53-62	FSL, L, SIL	CL, CL-ML	A-4	0	0	95-100	90-100	75-100	50-100	20-35	5-15
 75408:				 						<u> </u>	 	
Secesh	0 - 4	SIL	CL-ML, CL	A-4	0	0	80-100	75-100	65-95	50-90	20-30	5-10
i i	4-10	L, SIL	CL-ML, CL	A-4	0	0		75-100			20-30	5-10
	10-26	L, SIL, GR-L, GR-SIL	CL 	A-6 	0	0-10	70-100 	60-90	55-90	50-80 	25-40 	10-20
	26-36	L, SCL, GR-L, GRV-SL	SC 	A-2, A-6 	0-7	0-25	50-100	35-90	25-80	15-50 	25-35 	10-15
	36-80	GRV-SL, GRV- COSL, GRX- COSL, GRX-SCL	GC, SC 	A-2 	0-7	0-40	25-55	15-50	10-40	5-30 	20-35 	5-15
75409:				İ	' 							
Relfe		SL		A-4, A-2	0-1		75-100					5-10
	7-64	GRV-LCOS, GRV- COS, GRX-S, GRX-LCOS	GW, GW-GM, SP, SP-SM 	A-2, A-1 	0-7	0-40	20-80 	15-50	5-35	0-10 	15-25 	NP-10

 	Unified	 A 	ASHTO] 	>10	3-10					l limit	ticity
· ·	 			Ĺ	Inches	inches	4	10	40	200		index
· ·	!			- 	Pct	Pct		 	 		Pct	
GRV-COS, GRV- LCOS, GRX-COS, GRX-LCOS	SC-SM GP, GP-GM, SP-SM, SP	A-2 A-1, 	A-2		0 0-7			50-75 15-50 	25-50 5-35 		15-25 15-25 	
								! 	 	 		<u> </u>
GRV-SL GRV-L, CBV-L, GRX-L, GRV-	1 '	1			0	0-15 0-15		1			1	5-10 5-10
GRX-L, GRV-L,	GP-GC, GC-GM, SC, SC-SM,	A-2		į Į	0-5	0-40	30-90	15-50 	 10-45 	5-35 	20-30	5-15
<u>I</u>	GW-GC, SW-SC	A-2 			0-30	0-40	30-90	15-50 	10-25 	5-10 	20-30	5-15
L, SIL	CL, CL-ML CL, CL-ML CL, CL-ML,	A-4 A-4 A-2,	A-4		0 0 0	0 0 0	90-100	80-100	70-100	60-80	20-30	5-10 5-10 NP-10
 7 COS, S, LS 	SC, SC-SM SM, SC-SM,	 A-1, 	A-2, A	 A-3 	0	0	80-100	 75-100 	 5-85 	 5-35 	10-20	 NP-5
	GRV-SL GRV-L, CBV-L, GRX-L, GRV- COSL GRX-L, GRV-L, GRX-L, GRV-L, GRX-SL GRX-LCOS, CBX- LCOS, GRV- COSL, GRX- COSL, CBX- COSL, CBX- LCOSL, GRX-SL LL LL GL LL GL GL SL SL SL	GRV-SL GC-GM, GP-GC GRV-L, CBV-L, SC-SM, GC-GM GRX-L, GRV- COSL GRX-L, GRV-L, GP-GC, GC-GM, GRX-L, GRV-L, SC, SC-SM, GRX-SL GC GRX-LCOS, CBX- GW-GC, SW-SC LCOSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX-SL SC, CL-ML SC, SC-SM SM, SC-SM,	GRV-SL GC-GM, GP-GC A-2 GRV-L, CBV-L, SC-SM, GC-GM A-2 GRX-L, GRV- COSL GRX-L, GRV- GRX-L, GRV-L, GP-GC, GC-GM, A-2 GRX-L, GRV-L, SC, SC-SM, GRX-SL GC GRX-LCOS, CBX- COSL, GRX-SL SC, CL-ML A-4 SC, SC-SM SC, SC-SM, A-1,	GRV-SL GC-GM, GP-GC A-2 GRV-L, CBV-L, SC-SM, GC-GM A-2 GRX-L, GRV- COSL GRX-L, GRV- GRX-L, GRV-L, GP-GC, GC-GM, A-2 GRX-L, GRV-L, SC, SC-SM, GRX-SL GC GRX-LCOS, CBX- GW-GC, SW-SC A-2 LCOS, GRV- COSL, GRX-SL SC, CL-ML SC, SC-SM SC, SC-SM SM, SC-SM, A-1, A-2, A-4	GRV-SL GC-GM, GP-GC A-2 GRV-L, CBV-L, SC-SM, GC-GM A-2 GRX-L, GRV- GRX-L, GRV- GRX-L, GRV-L, GP-GC, GC-GM, A-2 GRX-L, GRV-L, SC, SC-SM, GRX-SL GC GC-GM, A-2 GRX-LCOS, CBX- GW-GC, SW-SC A-2 LCOS, GRV- COSL, GRX- COSL, GRX- COSL, GRX- COSL, CBX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX-SL CC, CL-ML A-4 A-	GRV-SL GC-GM, GP-GC A-2 0 GRV-L, CBV-L, SC-SM, GC-GM A-2 0 GRX-L, GRV- COSL 7 GRV-SL, CBV-L, GP-GC, GC-GM, A-2 0-5 GRX-L, GRV-L, SC, SC-SM, GRX-SL GC 0 GRX-LCOS, CBX- GW-GC, SW-SC A-2 0-30 LCOS, GRV- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, CBX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX- COSL, GRX-SL 0 CL, CL-ML A-4 0 SC, SC-SM 0 7 COS, S, LS SM, SC-SM, A-1, A-2, A-3 0	GRV-SL GC-GM, GP-GC A-2 0 0-15 GRV-L, CBV-L, SC-SM, GC-GM A-2 0 0-15 GRX-L, GRV- COSL 7 GRV-SL, CBV-L, GP-GC, GC-GM, A-2 0-5 0-40 GRX-L, GRV-L, SC, SC-SM, GRX-SL GC GC GC GC GC GC GC GC GC GC GC GC GC	GRV-SL GC-GM, GP-GC A-2 0 0-15 30-90 GRV-L, CBV-L, SC-SM, GC-GM A-2 0 0-15 30-90 GRX-L, GRV- COSL 7 GRV-SL, CBV-L, GP-GC, GC-GM, A-2 0-5 0-40 30-90 GRX-L, GRV-L, SC, SC-SM, GC-GM GRX-SL GC 0 GRX-LCOS, CBX- GC 0 GC-GM, A-2 0-30 0-40 30-90 LCOS, GRV- COSL, GRX- COSL, GRX- COSL, GRX- COSL, CBX- COSL, CBX- COSL, CBX- COSL, GRX-SL CO	GRV-SL GC-GM, GP-GC A-2 0 0-15 30-90 15-50 GRV-L, CBV-L, SC-SM, GC-GM A-2 0 0-15 30-90 15-50 GRX-L, GRV- COSL	GRV-SL GC-GM, GP-GC A-2 0 0-15 30-90 15-50 10-35 GRV-L, CBV-L, SC-SM, GC-GM A-2 0 0-15 30-90 15-50 10-45 GRX-L, GRV- COSL	GRV-SL GC-GM, GP-GC A-2 0 0-15 30-90 15-50 10-35 5-35 GRV-L, CBV-L, SC-SM, GC-GM A-2 0 0-15 30-90 15-50 10-45 5-35 GRX-L, GRV- COSL 7 GRV-SL, CBV-L, GP-GC, GC-GM, A-2 0-5 0-40 30-90 15-50 10-45 5-35 GRX-L, GRV-L, SC, SC-SM, GRX-SL GC 0 GRX-LCOS, CBX- GC GC-GM, A-2 0-30 0-40 30-90 15-50 10-45 5-35 GRX-LCOS, GRV- COSL, GRX- COSL,	GRV-SL GC-GM, GP-GC A-2 0 0-15 30-90 15-50 10-35 5-35 20-25 GRV-L, CBV-L, SC-SM, GC-GM A-2 0 0-15 30-90 15-50 10-45 5-35 20-25 GRX-L, GRV-COSL GRX-L, GRV-L, GRV-L, GP-GC, GC-GM, A-2 0-5 0-40 30-90 15-50 10-45 5-35 20-30 GRX-L, GRV-L, GC-GM, GRX-SL GC-GM, GRX-SL GC-GM, GRX-SL GC-GM, GRX-SL GC-GM, GRX-SL GC-GM, GRX-SL GC-GM, GRX-SL GC-GM, GRX-SL GW-GC, SW-SC A-2 0-30 0-40 30-90 15-50 10-25 5-10 20-30 15-50 10-25 5-10 20-30 15-50 10-25 5-10 20-30 15-50 10-25 5-10 20-30 15-50 10-25 5-10 20-30 15-50 10-25

Map symbol	Depth	USDA texture	Classif:	icati	on		Fragi	ments		rcentage sieve nu		ng	 Liquid	 Plas-
and soil name		 	Unified	 A	ASHTO		>10 inches	3-10 inches	 4	10	40	200	limit	ticity index
	In			 			Pct	Pct	 	 		 	Pct	
77000:	0 1	 SPM					l	 	 	 	 	 		
KIIIarney	0-1 1-5	SPM CBV-SIL	 GC-GM, GC	 A-2,	7 /		 0-10	 20-60	 50-70	 35-60	 30-55	 25-50	15-25	 NP-10
	5-16	GR-SIL, CBV- SIL, GRV-SIL	GC-GM, GC CL, GC, GC-GM 		A-4		0-10	0-60 0-60	50-70 50-90 	45-85 	30-55 40-75 	25-50 35-65 	15-25 15-25	NP-10 NP-10
	16-32	CBV-SIL, GRV-	SC-SM, SC,	 A-4, 	A-2,	A-6	0-10	0-60 	 40-70 	35-60	 30-55 	 25-50 	20-35	5-15
	32-48	GR-L, GRV-SIL, GRV-L, CBV-L, CBV-SIL, GRX-	SC, GC 	A-2, 	A-6		0-10	0-60 	25-80 	20-70 	15-65 	15-50 	25-35	10-15
	48-80	GR-L, GR-CL, GRV-L, GRV-CL, CBV-L	SC, CL, GC	A-2, 	A-6,	A-7	0	0-40	40-90 	35-85 	25-75 	20-65 	25-45	10-25
Frenchmill	0-1	 SPM	 	 				 	 		 	 		
i i	1-6	CBV-SIL	SC-SM, SC	A-2,	A-4		0-10	20-60	50-70	35-60	30-55	20-50	15-25	NP-10
	6-19	GR-SIL, GRV- SIL, CBV-L	SC-SM, SC, CL	A-2,	A-4		0-10	0-60	50-95	 45-85 	35-75	30-70	15-25	NP-10
	19-27 	CBV-SIL, GRV- SIL	GC-GM, GC, SC-SM, SC	A-2, 	A-4,	A-6	0-10	0-60 	40-70 	35-60 	30-55 		20-35	5-15
		GRV-L, CBV-L, GRV-CL, CBX-CL		A-2, 			0-10	0-60 					İ	10-20
	58-80 	SCL, CL, GR- SCL, GR-CL, CB-CL	SC, CL 	A-7, 	A-6,	A-2	0-10	0-40	65-100 	60-100 	35-85 	30-80 	30-45	10-25
 77001:		 	 	 				 	 	 	 	 		
Loughboro	0 - 4	SIL	CL	A-4			0	0	100	100			20-30	5-15
	4-12	SIL		A-4			0	0	100	100		75-95	20-30	5-15
	12-17	SICL	i -	A-7			0	0	100	1	80-100	ı	35-50	15-25
	17-45	SICL, SIC		A-7			0	0-7	100	I .	80-100	I	45-60	20-35
	45-67	SIL, SICL 	CL	A-7 			0	0-7 	100 	85-100 	80-100 	65-95 	35-50 	20-25

			Classif	icati	on	Fragi	ments	Per	rcentage	e Passin	ng		
Map symbol	Depth	USDA texture						8	sieve nu	ımber			Plas-
and soil name						>10	3-10					limit	ticity
			Unified	A.	ASHTO	inches	inches	4	10	40 	200 		index
	In					Pct	Pct				 	Pct	
77002:													
Delassus	0-3	SIL	CL-ML, CL	A-4		0	0-10	85-100	80-100	75-100	65-90	15-25	NP-10
	3-7	SIL	CL, CL-ML	A-4		0	0-10		80-100				5-10
		SIL, L, SICL	CL	A-6		0	1	85-100	1	ı	1	1	10-20
	31-61 	SIL, L, SL, GR- COSL, CB-SIL	SC-SM, CL,	A-6,	A-4	0	0-25	65-100 	60-95 	40-90 	35-80 	20-35	5-15
		BR		ļ								ļ	ļ
77003:			 				 	 	 	 	 		
Delassus	0-8	GR-SIL	CL, CL-ML	A-4		0	0-15	75-100	70-90	65-90	55-80	15-25	NP-10
İ	8-13	SIL, GR-SIL	CL-ML, CL	A-4		0	0-15	75-100	70-90	65-90	55-80	20-30	5-10
	13-20	L, SIL, GR-L, GR-SIL	CL 	A-6 		0 	0-15 	75-100 	70-90 	55-90 	50-85 	25-40	10-20
	20-59	SIL, GR-L, SL, GR-COSL, GR- SIL, CBV-L	CL, SC, SC- SM, CL-ML	A-6,	A-2, A-4	0-10	0-40	40-90 	35-80 	25-75 	20-65 	20-35	5-15
 	59-78	CB-L, GRV-SIL, GR-SICL, CBV- SICL	GC, SC 	A-6,	A-2	0-10	0-50 	40-90 	35-80 	30-65 	25-50 	25-40 	10-20
 77004:							 	 	 		 		
Irondale	0-1	SPM	· 	İ			Ì			i	i	j	i
	1-4	GR-SIL 	CL, SC, SC-	A-4 		0-10 	5-15 	65-95 	60-85 	45-80 	40-75 	15-25 	NP-10
	4-9	GR-SIL, GRV- SIL, CB-SIL, CBV-SIL	CL, CL-ML, SC, SC-SM	A-4		0-10	5-50 	50-95 	45-85 	40-80 	35-75 	15-25	NP-10
	9-15	GRV-SIL, CBV-	GC-GM, GC, SC-SM, SC	A-2,	A-6	0-10	15-50	40-70	35-60	30-55	30-50	20-35	5-15
	15-22	GRV-CL, GRV-L, CBV-SICL	GC GC	A-2,	A-6	0-10	 15-50	 40-70	 25-60	 25-55 	 20-50	30-40	10-20
		CBV-SICL BR	 			 	 	 	 	 	 		

Map symbol	Depth	USDA texture	Classif	ication		Fragn	nents		centage sieve nu		_	 Liquid	 Dlag-
and soil name	Береп	ODDIT CERCUIC		T		>10	3-10	 	JICVC IIC	AIIIDCI			ticity
			Unified	AASHT	i 07	inches	inches	4	10	40	200		index
	In			- I		Pct	Pct					Pct	
77005:			İ	İ	j						İ	İ	j j
Hassler	0-1	SPM											
	1-6	SIL	CL, CL-ML	A-4	ļ	0-2	0-10		85-100		60-80	20-30	5-10
	6-11	SIL, GR-SIL, CB-SIL	CL-ML, CL	A-4		0-5	0-25 	80-100 	70-100 	60-95 	50-90 	20-30	5-10
	11-20	L, SIL, SICL, CB-L, GR-CL, GR-SIL	CL 	A-6 		0-5	0-25	80-100 	70-100	60-95 	50-90 	30-40	10-20
	20-34	GRV-L, GR-L,	SC	A-2, A-6	5 	0-10	0-50	55-95 	40-85	30-75	20-50 	30-40	10-20
	34-42	COSL, BY-COSL, GR-COSL, CB- COSL, STV-COSL	sc 	A-2 	 	0-40	0-40	55-100	40-85	25-50	15-35 	25-35 	10-15
		BR	<u> </u>	j I	<u>'</u>]	'		 				j	j j
Syenite	0-1	 SPM	 				 	 	 				
i -	1-4	SIL	CL, CL-ML	A-4	į	0-2	0-10	95-100	85-100	70-85	50-80	20-30	 5-10
	4-9	 SIL, CB-SIL, GR-SIL	CL, CL-ML	A-4	į	0-5	0-25	95-100	85-100	70-85	50-80	20-30	5-10
	9-19	L, SIL, SICL, CB-L, GR-CL, GR-L	CL 	A-6 	 	0-5	0-25	80-100	70-100	60-95	50-90 	30-40	10-20
	19-29	CB-L, L, GR-L, CBV-L, BY-L	SC 	A-2, A-6	5 <u> </u> 	0-15	0-50	60-95	50-85	30-75	20-50 	25-35	10-20
		BR]	j I		 	 	 	 	 		
77006: Roselle	0-7	 SIL	CL, CL-ML	 A-4		0	 0-5	 85_100	 85-100	 80_95	 65-85	20-30	 5-10
KOSEIIE		SIL, SICL	CL, CL-ML	A-4 A-6		0	0-5 0-5		85-100		1	1	3-10 10-25
		L, CL, CB-L	CL	A-6		0-5			85-100		1	25-35	10 25 10-15
		COSL, CB-COSL	SC	A-2, A-6	5	0-5	0-25		85-95			1	10-20
			I		- 1						I		l

			Classif	icati	on	Fragi	ments		_	e Passi	_		
Map symbol and soil name	Depth	USDA texture		I		- >10	3-10	 	sieve n	umber		Liquid	Plas- ticity
and soff name		 	 Unified	 A	ASHTO	1	3-10 inches	 4	10	40	200	11111111	index
	In					Pct	Pct	 				Pct	
77007:		İ	j	İ		İ	İ	İ	İ	İ	İ	İ	i i
Taumsauk	0-1	SPM	İ	İ		Ì	j	j	j		j	j	i i
	1-5	CB-SIL 	CL, CL-ML, SC, SC-SM	A-4		0-5	7-40 	65-95 	60-85 	45-80 	40-75 	15-25 	NP-10
	5-17	CBX-SICL, GRV- SIL, GRV-CL, GRV-SICL, CBV-	GC, SC	A-6, 	A-2, A-	7 0-15 	15-50 	40-70 	35-60	30-55	30-50	25-45	10-25
	 	SIL, CBV-SICL BR 	 	 			 	 			 		
 Irondale	0-1	 SPM						 					
	1-5	CBV-SIL	GC, SC-SM, GC-GM, SC	A-2,	A-4	0-10	20-50 	40-70 	35-60 	30-55	25-50	15-25	NP-10
 	5-10	GRV-SIL, GR- SIL, CB-SIL, CBV-SIL	CL-ML, GC, CL, GC-GM	A-4 		0-10	5-50 	50-90 	45-85 	40-80	35-75 	15-25	NP-10
 	10-17	GRV-SIL, CBV-	SC-SM, GC-GM,	A-2,	A-6	0-10	 15-50 	 40-70 	35-60	30-55	30-50	20-35	5-15
	17-35	GRV-CL, GRV-L,	GC	A-2,	A-6	0-10	15-50	40-70	25-60	25-55	20-50	30-40	10-20
		BR		<u> </u>									
Rock outcrop	 	 UWB 	 					 					

Map symbol and soil name	200	limit 	Plas- ticity index 5-10 5-10
In	5 60-80 5 50-90	Pct 20-30	index
77008:	5 60-80 5 50-90	20-30	5-10
Hassler	5 60-80 5 50-90	20-30	5-10
1-3 SIL CL, CL-ML A-4 0-2 0-10 95-100 85-100 70-8 3-9 SIL, GR-SIL, CL, CL-ML A-4 0-5 0-25 80-100 70-100 60-9	5 60-80 5 50-90	20-30	5-10
3-9 SIL, GR-SIL, CL, CL-ML A-4 0-5 0-25 80-100 70-100 60-9	5 50-90	1	1 1
	; 5n_9n	İ	7 10
CB-L, GR-CL,	, 30-90 	30-40	10-20
24-31 GR-L, GRV-L, SC A-2, A-6 0-10 0-50 55-95 40-85 30-7	5 20-50	30-40	10-20
31-48 COSL, BY-COSL, SC) 15-30 	25-35	10-15
BR	j	j	j j
77009:			
Trackler 0-1 SPM			
1-2 SIL CL-ML, CL A-4 0-3 0-5 95-100 90-100 85-1		1	5-10
2-8 SIL CL-ML, CL A-4 0-3 0-5 95-100 90-100 85-1)0 80-95	20-30	5-10
8-14 SIL, SICL, GR- CL A-6 0-3 3-10 80-100 75-100 70-1)0 65-100 	0 30-40	10-20
14-23 GR-SIL, CL, CB- CL, GC, SC A-6, A-7 0-10 10-25 60-100 50-95 45-9	40-90	30-50	10-25
23-45 CBV-L, STX-L, SC, SP-SC, A-2 40-75 15-30 25-70 20-60 5-4) 5-30	20-35	10-20
BR			

	Depth	 USDA texture	Classif:	icati	on	_	ments		rcentage sieve nu		ng		 Plas-
and soil name		 	 Unified 	 A.	ASHTO	>10 inches	3-10 inches	 4	10	40	200	limit 	ticity index
	In			! !		Pct	Pct		 	———— 		Pct	
77010:	0 1												
Trackler	0-1	SPM											
	1-4 4-8	Į.	CL, CL-ML	A-4		0-3	0-5		90-100			20-30	5-10
		1	CL-ML, CL	A-4			0-5		90-100			1	5-10
	8-13	SIL, SICL, GR- SICL	 CL	A-6 		0-3	0-10 		75-100 	70-100	65-95 	30-40	10-20
	13-25	GR-SIL, CB-SIL, GR-CL, CL, GR- SICL, CB-SICL, SICL, GR-C	CL, GC, SC 	A-6, 	A-7	0-10	5-25 	60-100 	50-95 	45-95 	40-90 	30-50	10-25
	25-44	GRV-COSL, GRX- COSL, CBV-L,	GC, SP-SC, GP-GC, SC 	A-2 		2-15	15-30 	 25-70 	20-60 	5-40 	5-30 	20-35	10-20
 		BR	 	Ϊ [' 	' 	 	 		
	0-1	 SPM	 	 			 	 	 	 	 		
	1-5	GR-SIL 	GC, GC-GM, CL, CL-ML	A-4		0-2	0-15 	65-95	60-85	45-80 	40-75 	15-25	NP-10
	5-11	GR-SIL, GRV- SIL, CB-SIL, CBV-SIL	CL, GC-GM, GC, CL-ML	A-4 		0-10	5-50 	50-95 	45-85 	40-80	35-75 	15-25	NP-10
j 	11-15	GRV-SIL, CBV-	SC-SM, GC-GM,	A-2,	A-6	0-10	 15-50 	40-70	35-60 	30-55 	30-50	20-35	5-15
	15-24	GRV-CL, GRV-L,	GC 	A-2,	A-6	0-10	 15-50 	40-70 	25-60	25-55 	20-50	30-40	10-20
İ		BR										j	
 78250:] 	 	 	 	 		
Skrainka 	0-6 6-33	SIL CL, SICL, C, SIC	CL CH, CL	A-6 A-7 		0 0	0-5 0-5	1	85-100 85-100 			25-35	10-15 20-30
	33-57 57-80	L, CL COSL, SL, FSL	CL SC-SM, SC, CL	A-6 A-4		0	1	I	90-100	ı	60-75 35-50	1	10-20 NP-10

 Map symbol	 Depth	USDA texture	Classif:	ication	Fragi	ments		_	e Passir umber	ng	 Liquid	 Plas-
and soil name					>10	3-10					limit	ticity
	 -		Unified	AASHTO	inches	inches	4	10	40	200	İ	index
	In				Pct	Pct		 	———— 		Pct	
78251:												
Skrainka	0-4	Ĺ	CL	A-6	0-10	0-5	80-100	75-95	65-80	50-65	25-35	10-15
	4-31 	CL, SICL, C,	CH, CL	A-7	0	0-5	95-100	85-100	85-100	75-95 	40-60	20-30
j	31-54	L, CL	CL	A-6	0	0-5	95-100	90-100	80-95	60-75	25-40	10-20
	54-80	COSL, SL, FSL	SC-SM, SC, CL	A-4	0	0-5	95-100	90-100	65-80	35-50	15-30	NP-10
99001:		 	 			 		 	 	 		
Water	 I											
99006:		 	 			 		 	 	 		
Udipsamments	0-60	LFS										
99008:			 			 		<u> </u>	 	 		
Udorthents	0-60	VAR									0-14	
Dumps	0-60	 VAR	 	 			 	 			0-14	
	 			 	 	l 		 	 	 		